FROWEIN GmbH & Co. KG

Revision date: 06.11.2007 Revision no.: 1,01

**CONTRAX-TOP CONCENTRATE** 

00434-0056

# 1. Identification of the substance/preparation and of the company/undertaking

### Identification of the substance or preparation

**CONTRAX-TOP CONCENTRATE** 

Use of the substance/preparation

Pesticide

### Company/undertaking identification

FROWEIN GmbH & Co. KG

Am Reislebach 83 D-72461 Albstadt

Telephone ++49 (0) 74 32-956 - 0 Telefax ++49 (0) 74 32-956 - 138

Contact person Inquiry office

Responsible for the safety data sheet: sds@gbk-ingelheim.de

### 2. Hazards identification

#### Classification

Indications of danger: Harmful

R-phrases:

Harmful by inhalation, in contact with skin and if swallowed.

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

### 3. Composition/information on ingredients

**Chemical characterization** 

(preparation)

Liquid concentrate

### **Hazardous components**

EC-No.	CAS-No.	Chemical name	Quantity	Classification
249-205-9		3-[3-(4'-bromo[1,1'-biphenyl]-4-yl) -3-hydroxy-1-phenylpropyl] -4-hydroxy-2-benzopyrone	,	T+, T, N R26/27/28-48/23/24/25-50-53

Full text of each relevant R phrase can be found in heading 16.

# 4. First aid measures

### **General information**

Remove contaminated soaked clothing immediately.

If you feel unwell, seek medical advice.

### After inhalation

Move to fresh air in case of accidental inhalation of fumes from overheating or combustion.

In the event of symptoms refer for medical treatment.

# After contact with skin

Wash off immediately with soap and plenty of water.

Consult a doctor if skin irritation persists.

### After contact with eyes

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

Seek medical treatment by eye specialist.

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# After ingestion

Do not induce vomiting.

Summon a doctor immediately.

Induce vomiting only upon the advice of a physician.

### Advice to doctor

Administer Vitamin K1 as antidote.

### 5. Fire-fighting measures

### Suitable extinguishing media

Foam, carbon dioxide (CO2), dry chemical, water-spray.

# Extinguishing media which must not be used for safety reasons

Full water jet

# Special exposure hazards arising from substance or preparation itself, combustion products, ...

# resulting gases

Fire may produce:

Carbon monoxide and carbon dioxide.

Bromine compounds

### Special protective equipment for fire-fighters

Wear self-contained breathing apparatus and protective suit.

### Additional information

Cool containers at risk with water spray jet.

Do not release chemically contaminated water into drains, soil or surface waters. Sufficient measures must be taken to retain water used for extinguishing.

#### 6. Accidental release measures

### **Personal precautions**

Ensure adequate ventilation.

Use personal protective clothing.

Avoid contact with skin, eyes and clothing.

### **Environmental precautions**

Do not discharge into the drains/surface waters/groundwater.

# Methods for cleaning up/taking up

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder).

Take up mechanically and collect in suitable container for disposal.

### **Additional information**

Clean contaminated surface thoroughly.

### 7. Handling and storage

### **Handling**

# Advice on safe handling

Keep container tightly closed.

Avoid contact with skin, eyes and clothing.

When using, do not eat, drink or smoke.

#### Advice on protection against fire and explosion

No special protective measures against fire required.

### **Storage**

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### Requirements for storage rooms and vessels

Keep container tightly closed in a dry, cool and well-ventilated place.

# Advice on storage compatibility

Incompatible with oxidizing agents.

### Further information on storage conditions

Keep away from food, drink and animal feeding stuffs.

Storageclass (VCI)

### 8. Exposure controls/personal protection

### **Exposure limit values**

### **Exposure limits (EH40)**

CAS-No.	Chemical name	ml/m³	mg/m³	F/ml	Category	Origin
57-55-6	Propane-1,2-diol, particulates	-	10	,	TWA (8 h)	WEL
	Propane-1,2-diol, particulates	-	-		STEL (15 min)	WEL

### **Exposure controls**

### Occupational exposure controls

Ensure adequate ventilation, especially in confined areas.

# Protective and hygiene measures

Wash hands before breaks and immediately after handling the product.

When using, do not eat, drink or smoke.

Take off immediately all contaminated clothing.

Avoid contact with skin, eyes and clothing.

### Respiratory protection

No personal respiratory protective equipment normally required.

### Hand protection

Solvent-resistant gloves (nitrile rubber).

# Eye protection

Tightly fitting goggles

### Skin protection

Long sleeved clothing.

# 9. Physical and chemical properties

# **General information**

Physical state Liquid
Colour Red
Odour Soft

# Important health, safety and environmental information

Test method

Changes in the physical state

Flash point 103 °C

**Flammability** 

Lower explosion limits n. d.

Upper explosion limits

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Ignition temperature n. d. Density (at 20 °C): 1,04 g/cm<sup>3</sup> Miscible Water solubility:

at (20 °C)

### 10. Stability and reactivity

#### Conditions to avoid

To avoid thermal decomposition, do not overheat.

### Materials to avoid

Oxidizing agents.

### Hazardous decomposition products

Carbon monoxide and carbon dioxide.

Bromine compounds

### **Additional information**

No decomposition if stored and applied as directed.

# 11. Toxicological information

### **Acute toxicity**

LD50/oral/rat: 0,56 - 0,84 mg/kg (\*) LD50/dermal/rabbit: 1,71 mg/kg (\*) LC50/inhalativ/rat:: 0,43 µg/kg (\*)

(\*) 3-[3-(4'-bromo[1,1'-biphenyl]-4-yl)-3-hydroxy-1-phenylpropyl]-4-hydroxy-2-benzopyrone

# Empirical data on effects on humans

Harmful by inhalation, in contact with skin and if swallowed.

Product reduces blood coagulability and causes internal bleeding.

If appropriately handled and if in accordance with the general hygienic rules, no damages to health have

become known.

### 12. Ecological information

### **Ecotoxicity**

LC50 / Sun perch / 96h = 3.0 mg/l (\*)

LC50 / Rainbow trout / 96h = 1,4 mg/l (\*)

EC50 / Daphnia / 48h = 2.0 mg/l (\*)

EbC50 / Algae / 72 h = 0,17 mg/l (\*)

(\*) 3-[3-(4'-bromo[1,1'-biphenyl]-4-yl)-3-hydroxy-1-phenylpropyl]-4-hydroxy-2-benzopyrone

### Persistence and degradability

Photolysis: Half-life: 2,1 h (pH 7,3) Hydrolysis: Half-life: 67 d (pH 7)

### **Further information**

Do not flush into surface water or sanitary sewer system.

Hazard to waters

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

# 13. Disposal considerations

# Advice on disposal

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Where possible recycling is preferred to disposal.

Can be incinerated, when in compliance with local regulations.

# Waste disposal number of waste from residues/unused products

200119 MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL

AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS;

separately collected fractions (except 15 01); pesticides

Classified as hazardous waste.

# Waste disposal number of contaminated packaging

150110 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND

PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); packaging containing residues of or contaminated by

dangerous substances

Classified as hazardous waste.

### Contaminated packaging

Re-using the polluted packaging materials is not allowed.

Contaminated packagings are to be treated like the product itself.

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# 14. Transport information

# **Land transport (ADR/RID)**

ADR/RID class	6.1
Classification code :	T6
Hazard-no.	60
UN number	3026
Hazard label	6.1
ADR/RID packing group	III
Limited quantity:	LQ 7

### **Description of the goods**

Coumarin derivative pesticide, liquid, toxic (3-[3-(4'-bromo[1,1'-biphenyl]-4-yl)-3-hydroxy-1-phenylpropyl] -4-hydroxy-2-benzopyrone)

# Other applicable information (land transport)

LQ 7: combination packaging: 5 I / 30 kg (total gross mass); trays: 5 I / 20 kg (total gross mass).

### **Inland waterways transport**

# **Marine transport**

IMDG code	6.1
UN number	3026
EmS	F-A; S-A
Limited quantity:	5 L / 30 kg
IMDG packing group	III
Hazard label	6.1

### **Description of the goods**

COUMARIN DERIVATIVE PESTICIDE, LQIUID, TOXIC (bromadiolone)

# Other applicable information (marine transport)

Limited quantities (section 3.4): combination packaging: 5 l / 30 kg (total gross mass); trays: 5 l / 20 kg (total gross mass).

# Air transport

ICAO/IATA-DGR	6.1
UN/ID number	3026
Hazard label	6.1

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IATA-packing instructions - Passenger
IATA-max. quantity - Passenger
IATA-packing instructions - Cargo
IATA-packing instructions - Cargo
IATA-max. quantity - Cargo
ICAO packing group
III
Limited quantity Passenger
Y611/ 2 L

**Description of the goods** 

COUMARIN DERIVATIVE PESTICIDE, LQIUID, TOXIC (bromadiolone)

\_\_\_\_\_\_

# 15. Regulatory information

### Labelling

According to EC-regulations the product is to be labelled as follows:

Indication of danger Xn - Harmful

# Hazardous component(s) to be indicated on label

3-[3-(4'-bromo[1,1'-biphenyl]-4-yl)-3-hydroxy-1-phenylpropyl]-4-hydroxy-2-benzopyrone

R phrases

20/21/22 Harmful by inhalation, in contact with skin and if swallowed.

52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic

environment.

S phrases

02 Keep out of the reach of children.

13 Keep away from food, drink and animal feedingstuffs.

20/21 When using do not eat, drink or smoke.

This material and its container must be disposed of in a safe way.

36/37 Wear suitable protective clothing and gloves.

46 If swallowed, seek medical advice immediately and show this container or label.

49 Keep only in the original container.

National regulatory information

Employment restrictions Observe employment restrictions for young people. Observe

employment restrictions for child bearing mothers and nursing.

Water contaminating class (D) 2 - water contaminating

1999/13/EC (VOC) 0 %

\_\_\_\_\_\_

# 16. Other information

### Full text of R-phrases referred to under sections 2 and 3

20/21/22 Harmful by inhalation, in contact with skin and if swallowed.

Very toxic by inhalation, in contact with skin and if swallowed.

48/23/24/25 Toxic: danger of serious damage to health by prolonged exposure through inhalation, in

contact with skin and if swallowed.

Very toxic to aquatic organisms.

52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic

environment.

53 May cause long-term adverse effects in the aquatic environment.

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### **Further Information**

Data of items 4 to 8, as well as 10 to 12, do partly not refer to the use and the regular employing of the product (in this sense consult information on use and on product), but to liberation of major amounts in case of accidents and irregularities.

The information describes exclusively the safety requirements for the product (s) and is based on the present level of our knowledge.

The delivery specifications are contained in the corresponding product sheet.

This data does not constitute a guarantee for the characteristics of the product(s) as defined by the legal warranty regulations.

"(n.a. = not applicable; n.d. = not determined)"

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)

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